INCH POUND
MIL-PRF-3098/60F
27 August 1997
SUPERSEDING
MIL-C-3098/60E
28 June 1995

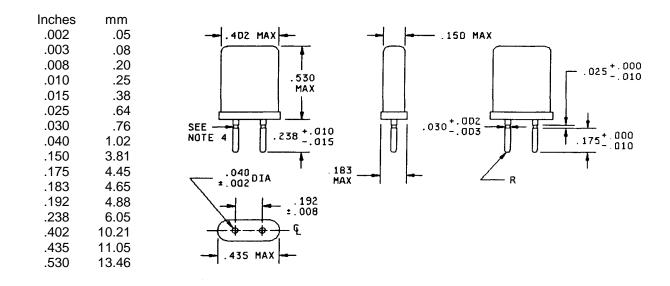
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR83/U

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-3098.

Pertinent characteristics: 50 MHz to 125 MHz; fifth mechanical overtone; noncontrolled; series.



NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Marking shall be in accordance with MIL-PRF-3098.
- 4. The pin undercut may be omitted.

FIGURE 1. Crystal unit - CR83/U.

AMSC N/A 1 of 3 FSC 5955 DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 50 MHz to 125.0 MHz, inclusive.

Frequency tolerances:

Primary operating temperature range: ±20 parts per million (ppm).

Secondary operating temperature range: ±30 ppm.

Equivalent resistance: MHz Ohms, maximum

50 to 90 50

90+ to 125 60

Mode of oscillation: Fifth mechanical overtone.

Operating temperature ranges (noncontrolled):

Primary: -40°C to +90°C, inclusive.

Secondary: -55°C to -40°C, and +90°C to +105°C, inclusive.

Rated drive level: 1.0 mW, maximum.

Resonance: Series.

Capacitance, shunt: 7 pF, maximum.

Shock (specified pulse):

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Frequency and equivalent resistance (temperature run):

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Vibration: Method 204 of MIL-STD-202, test condition A.

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

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Frequency change permitted: ±5 ppm.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR Navy - EC

Air force - 85

Review activities:

Army - AR, MI Navy - AS, MC, SH

Air Force - 17, 19

Preparing activity:

Army - CR

Agent: DLA - CC

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